

What is claimed is:

[1] An isolation trap circuit in which a PIN diode PD and an inductor L are connected in parallel to a first terminal 61, 5 and a capacitor C1 is connected in series to the inductor L, while the PIN diode PD and the capacitor C1 are connected in parallel to a second terminal 62, the isolation trap circuit being characterized in that a capacitor C2 is further connected and grounded between the first terminal 61 and the 10 inductor L, or between the inductor L and the capacitor C1, or between the capacitor C1 and the second terminal 62.

[2] An isolation trap circuit in which a PIN diode PD and an inductor L are connected in parallel to a first terminal 61, 15 and a capacitor C1 is connected in series to the inductor L, while the PIN diode PD and the capacitor C1 are connected in parallel to a second terminal 62, the isolation trap circuit being characterized in that a capacitor C2 is further connected and grounded between the inductor L and the capacitor C1.

20 [3] An antenna switch module included in a portable terminal device used in a plurality of communication systems, comprising:
a first circuit for transmitting a transmission signal of a first communication system, a second circuit for transmitting

a transmission signal of a second communication system, and a diplexer to be provided between the first circuit, the second circuit, and an antenna, the antenna switch module being characterized in that the isolation trap circuit according to 5 claim 1 is provided in the first circuit and/or the second circuit.

[4] An antenna switch module included in a portable terminal device used in a plurality of communication systems, comprising:

- 10 a first circuit for transmitting a transmission signal of a first communication system and for receiving a reception signal of the first communication system, a second circuit for transmitting a transmission signal of a second communication system and for receiving a reception signal of the second system and for receiving a reception signal of the second 15 communication system, and a diplexer to be provided between the first circuit, the second circuit, and an antenna, the antenna switch module being characterized in that the isolation trap circuit according to claim 1 is provided in the first circuit and/or the second circuit.
- 20 [5] A transmission circuit comprising a dual power amp for amplifying the first transmission signal and the second transmission signal, and the antenna switch module according to claim 3.